

Attorney Docket No. 29083/41796



23646

PATENT TRADEMARK OFFICE

IPW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s): Emanoil Surducan et al.

MAY 25 2004

Serial No.: 10/718,568 Art Unit: 2800

Filed: November 24, 2003 Examiner:

For: MODIFIED PRINTED DIPOLE ANTENNAS FOR WIRELESS  
MULTI-BAND COMMUNICATION SYSTEMS

**SUBMISSION UNDER 37 C.F.R. 1.56, 1.97 & 1.98**  
**INFORMATION DISCLOSURE STATEMENT**

Mail Stop DD  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

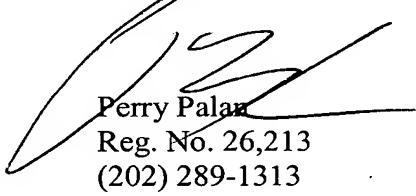
Sir:

To comply with the duty of disclosure set forth in 37 C.F.R. 1.56, the prior art listed on the attached PTO-1449 is submitted herewith to the Examiner for consideration in connection with the examination of the above-identified application.

The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to Account No. 02-1010 (29083/41796).

Respectfully submitted,

BARNES & THORNBURG LLP



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Enclosure

U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY DOCKET NO.	SERIAL NO.
<b>LIST OF DOCUMENTS CITED BY APPLICANT</b> <i>(Use several sheets if necessary)</i>		29083/41796	10/718,568
		APPLICANT	
		Emanoil Surducan et al.	
		FILING DATE	GROUP
		November 24, 2003	2800



### U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AA	4,438,437	03/20/1984	Burgmyer			
AB	5,030,962	07/09/1991	Rees			
AC	5,949,383	09/07/1999	Hayes et al.			
AD	5,986,606	11/16/1999	Kossiavas et al.			
AE	6,072,434	06/06/2000	Papatheodorou			
AF	6,239,765	05/29/2001	Johnson et al.			
AG	6,275,192	08/14/2001	Kim			
AH	6,300,908	10/09/2001	Jecko et al.			
AI	6,346,921	02/12/2002	Excell et al.			
AJ	6,353,443	03/05/2002	Ying			
AK	6,404,394	06/11/2002	Hill			
AL	6,407,710	06/18/2002	Keilen et al.			
AM	6,429,818	08/06/2002	Johnson et al.			
AN	6,509,882	01/21/2003	McKivergan			
AO	6,603,430	08/05/2003	Hill et al.			
AP	6,621,464	09/16/2003	Fang et al.			
AQ	6,624,793	09/23/2003	Su et al.			

### FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
AR							
AS							
AT							



OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

EXAMINER INITIAL		DESCRIPTION
AU		Smith, K.: "Antennas for low power applications," RFM®, AN36A-070898 (undated).
AV		Wang, H.Y. et al.: "Simulation of microstrip small antennas," Vector Fields Limited, UK, APP-025-06-02 (undated).
AW		McKinzie, W. et al.: "Novel packaging approaches for miniature antennas," IMAPS/SMTA Conf. on Telecom Hardware Solutions, Plano, TX (May 2002).
AX		Dietrich, C.B. et al.: "Trends in antennas for wireless communications," Microwave Journal (Jan. 2003).
AY		Fiedziuszko, S.J. et al.: "Dielectric materials, devices, and circuits," IEEE Trans. Microwave Theory Tech., vol. 50, pp. 706-719 (March 2002).
AZ		Kaneda, N. et al.: "A broad-band planar quasi-Yagi antenna," IEEE Trans. Antennas Propagat., vol. 50, pp. 1158-1160 (Aug. 2002).
BA		Li, R. et al.: "Development and analysis of a folded shorted-patch antenna with reduced size," School of Electrical & Computer Engineering, Georgia Institute of Technology, Atlanta, GA (undated).
BB		Wong, K.: "Planar antennas for WLAN applications," Dept. of Electrical Engineering, Nat'l Sun Yat-Sen University, Kaohsiung, Taiwan (2002)
EXAMINER:		DATE CONSIDERED:

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.